This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

REMARKS/ARGUMENTS

1. Claims 1-3 are pending.

2. Claims 1-2 stand rejected, under 35 U.S.C. § 103(a), for obviousness over Cheung et al. (hereinafter "Cheung"), in view of Schuurs et al. (hereinafter "Schuurs"), and further in view of Metcalfe et al. (hereinafter "Metcalfe").

Applicants submit herewith Exhibit A, which details that the Cheung reference (Analytical Chemistry 282: 24-28, 2000) was published in the June 15, 2000 edition of the journal. Therefore, the Cheung reference does not qualify as prior art, under 35 U.S.C. § 102(b), over the present application, which claims priority from U.S. Provisional Patent Appl. No. 60/265,135, filed January 30, 2001.

Furthermore, Applicants submit herewith a 37 C.F.R. 1.131 Declaration of Janice A. Brown, co-inventor on the present application, which recounts that the claimed invention of claims 1 and 2 was conceived and reduced to practice prior to June, 2000.

Accordingly, Applicants respectfully request reconsideration of the Office Action mailed February 26, 2004.

3. Claim 3 stands rejected, under 35 U.S.C. § 103(a), for obviousness over Cheung, in view of Schuurs, in further view of Metcalfe, and further in view of Craig et al. (hereinafter "Craig").

Applicants submit herewith a 37 C.F.R. 1.131 Declaration of Janice A. Brown, co-inventor on the present application, which describes that the claimed invention of claim 3 was conceived and reduced to practice prior to June, 2000.

Accordingly, Applicants respectfully request reconsideration of the Office Action mailed February 26, 2004.

4. In view of the Remarks/Arguments hereinabove, and the Declaration submitted herewith, Applicants believe that the Application is in condition for immediate allowance. Therefore, reconsideration of the Office Action mailed February 26, 2004, and a timely Notice of Allowance is respectfully requested.

Respectfully submitted,

Date: July 26th, 2004

Deborah A. Martin
Attorney for Applicant
Reg. No. 44,222

Pfizer Inc.
Patent Department, MS 8260-1611
Eastern Point Road
Groton, Connecticut 06340
(860) 715-1821

Exhibit A
Appl. No. 10/053, 262 - Response to
Office Action of February 26, 2004

Register or Login: user name Password: Go

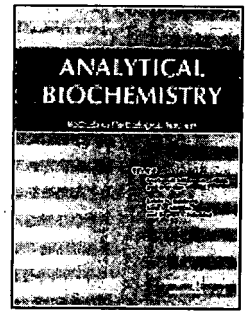
Home Search Journals Abstract Databases Books Reference Works My Profile Alerts Help

Quick Search: within This Volume/Issue Go Search Tips

issue list

Analytical Biochemistry

Copyright © 2004 Elsevier Inc. All rights reserved



Volume 282, Issue 1, Pages 1-164 (15 June 2000)

display checked docs e-mail articles export citations View: Citations Go

Abstract | Abstract + References | PDF (137 K)

---

4. **A Scintillation Proximity Assay for Poly(ADP-ribose) Polymerase** • ARTICLE
Pages 24-28
Anissa Cheung and Jie Zhang
Abstract | Abstract + References | PDF (198 K)

---

5. **Influence of Cell Fixation on Chromatin Topography** • ARTICLE
Pages 29-38
S. Kozubek, E. Lukášová, J. Amrichová, M. Kozubek, A. Lişková and J. Šlotová
Abstract | Abstract + References | PDF (244 K)

---

6. **Catalytic Chromatography** • ARTICLE
Pages 39-45
Luis A. Jurado, James T. Drummond and Harry W. Jarrett
Abstract | Abstract + References | PDF (124 K)

---

7. **A Branched DNA Signal Amplification Assay to Quantitate Messenger RNA of Human Uncoupling Proteins 1, 2, and 3** • ARTICLE
Pages 46-53
Lubing Zhou, Ellen V. Cryan, Lisa K. Minor, Joseph W. Gunnet and Keith T. Demarest
Abstract | Abstract + References | PDF (197 K)

---

8. **Histidine-Tagged Ubiquitin Substitutes for Wild-Type Ubiquitin in *Saccharomyces cerevisiae* and Facilitates Isolation and Identification of *in Vivo* Substrates of the Ubiquitin Pathway** • ARTICLE
Pages 54-64
Richard Ling, Elsbeth Colón, Michael E. Dahmus and Judy Callis
Abstract | Abstract + References | PDF (220 K)

---

9. **Genetically Fused Protein A–Luciferase for Immunological Blotting Analyses** • ARTICLE
Pages 65-69
Xiao-mei Zhang, Eiry Kobatake, Kiyoaki Kobayashi, Yasuko Yanagida and Masuo Aizawa
Abstract | Abstract + References | PDF (132 K)

---

10. **Detection of DNA via an Ion Channel Switch Biosensor** • ARTICLE
Pages 70-79

Sally Wright Lucas and Margaret M. Harding
Abstract | Abstract + References | PDF (118 K)

---

11. **Modified Telomeric Repeat Amplification Protocol: A Quantitative Radioactive Assay for Telomerase without Using Electrophoresis** • ARTICLE
Pages 80-88
Istvan Szatmari, Szilvia Tőkés, Christopher B. Dunn, Thomas J. Bardos and Janos Aradi
Abstract | Abstract + References | PDF (145 K)

---

12. **Determination of Ascorbic Acid and Dehydroascorbic Acid in Biological Samples by High-Performance Liquid Chromatography Using Subtraction Methods: Reliable Reduction with Tris[2-carboxyethyl]phosphine Hydrochloride** • ARTICLE
Pages 89-93
Jens Lykkesfeldt
Abstract | Abstract + References | PDF (67 K)

---

13. **Cytostar-T Scintillating Microplate Assay for Measurement of Sodium-Dependent Bile Acid Uptake in Transfected HEK-293 Cells** • ARTICLE
Pages 94-101
Helena Bonge, Stefan Hallén, Jan Fryklund and Jan-Eric Sjöström
Abstract | Abstract + References | PDF (172 K)

---

14. **Effects of Dithiothreitol on Protein Activity Unrelated to Thiol–Disulfide Exchange: For Consideration in the Analysis of Protein Function with Cleland's Reagent** • ARTICLE
Pages 102-106
Mark C. Alliegro
Abstract | Abstract + References | PDF (99 K)

---

15. **Development of a Scintillation Proximity Assay for β-Ketoacyl-acyl Carrier Protein Synthase III** • ARTICLE
Pages 107-114
Xin He, John P. Mueller and Kevin A. Reynolds
Abstract | Abstract + References | PDF (169 K)

---

16. **Quantitative Measurement of Sphingosine 1-Phosphate by Radioreceptor-Binding Assay** • ARTICLE
Pages 115-120
Naoya Murata, Koichi Sato, Junko Kon, Hideaki Tomura and Fumikazu Okajima

Abstract | Abstract + References | PDF (68 K)

---

17. **Affinity Biosensor for Avidin Using a Double Functionalized Dendrimer Monolayer on a Gold Electrode** • ARTICLE
Pages 121-128
Hyun C. Yoon, Mi-Young Hong and Hak-Sung Kim
Abstract | Abstract + References | PDF (103 K)

---

18. **Competitive Hybridization: Theory and Application in Isolation and Quantification of Differentially Regulated Genes** • ARTICLE
Pages 129-135
Guang Yan Zhong, Joseph Riov, Raphael Goren and Doron Holland
Abstract | Abstract + References | PDF (109 K)

---

19. **Identification of Sulfonylureas in Serum by Electrospray Mass Spectrometry** • ARTICLE
Pages 136-141
F. Magni, L. Marazzini, S. Pereira, L. Monti and M. Galli Kienle
Abstract | Abstract + References | PDF (90 K)

---

20. **A Fiber-Optic Microarray Biosensor Using Aptamers as Receptors** • ARTICLE
Pages 142-146
Myoyong Lee and David R. Walt
Abstract | Abstract + References | PDF (81 K)

---

21. **Electrophoresis of Proteins and Protein–Protein Complexes in a Native Agarose Gel** • SHORT COMMUNICATION
Pages 147-149
Rosalind Kim, Hisao Yokota and Sung-Hou Kim
Abstract | Abstract + References | PDF (95 K)

---

22. **Phosphohistidine Analysis Using Reversed-Phase Thin-Layer Chromatography** • SHORT COMMUNICATION
Pages 149-153
Paul G. Besant, Michael V. Lasker, Cuong D. Bui and Christoph W. Turck
Abstract | Abstract + References | PDF (171 K)

---

23. **An In-Gel Assay of a Recombinant Western Corn Rootworm (*Diabrotica virgifera virgifera*) Cysteine Proteinase Expressed in Yeast** • SHORT COMMUNICATION
Pages 153-155

issue list

Home | Search | Journals | Abstract Databases | Books | Reference Works | My Profile | Alerts | Help

Feedback | Terms & Conditions | Privacy Policy

Copyright © 2004 Elsevier B.V. All rights reserved. ScienceDirect® is a registered trademark of Elsevier B.V.

Nº 48520- 89

Purpose: Repeat the compound (see below) dose responses using the biotinylated NAD PARP ELISA assay format

Procedure

Biotinylated NAD

PARP (partially purified) 5ug/l
5.3mg/l protein in stock
dilute stock 1:1000 to make a 5.3ug/l stock
For 1 plt make 13 l
13uls PARP + 12.987 l buffer (50mM Tris HCl pH 8.0, 20uM $ZnCl_2$ 4mM $MgCl_2$)

Coat Plates overnight at 4°C

Wash 3X w T-PBS

Add the folbwing (Note for the next step keep all reagents on ice)

Buffer (50mM Tris HCl pH 8.0, 20uM $ZnCl_2$ 4mM $MgCl_2$)
For 1 plt make 15mls buffer

Cold NAD 100uM (FC)
66.34mg/L = 100uM NAD

$$\frac{66.34\text{mg}}{1000\text{l}} = \frac{}{15\text{l}} = .995\text{mg NAD}/15\text{l buffer} = 100\text{uM NAD}$$

DTT 1mM (FC)
152.4mg/L = 1mM DTT

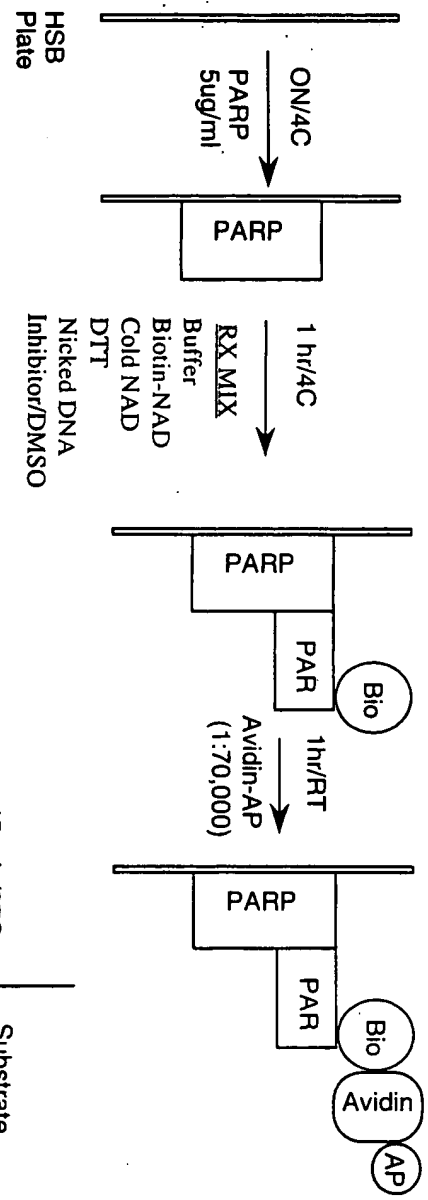
$$\frac{152.4\text{mg}}{1000\text{l}} = \frac{1\text{l}}{15\text{l}} = 2.286\text{mg DTT}/15\text{l buffer} = 1\text{mM DTT}$$

Biotinylated NAD (25uM FC)
Make ~14.5 l so add
1.450 l Biotinylated NAD to 13.050 l of buffer containing cold NAD (100uM) and DTT (1mM)
Note: Adding biotinylated NAD to the above + cold NAD and + DTT buffer will cause a 10% reduction in buffer conc so now have 45mM Tris HCl, 18uM $ZnCl_2$, 3.6mM $MgCl_2$ 90uM cold NAD and 900uM DTT. This was the same way buffer establishing these assay

Janice Brown

Dwight McAndrew

PARP Biotinylated NAD Assay



Janice Brown

OIPE JC141
JUL 30 2004
PATENT & TRADEMARK OFFICE

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Hon. Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on this 26th day of July, 2004.

By _____
(Signature of person mailing)
Janice M. Denison
(Typed or printed name of person)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 10/053,262
In Re Application of Janice A. Brown et al.
Filed: January 18, 2002
Group Art Unit: 1641
Examiner: Davis, Deborah A.
Docket No.: PC11044ADAM
Customer No.: 28523

Hon. Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

37 CFR § 1.131 DECLARATION OF JANICE A. BROWN

Sir:

1. I, Janice A. Brown, am the first named inventor of the above-captioned application.

2. I, together with co-inventor Ravi B. Marala, conceived of, and reduced to practice, the invention claimed in Claims 1-3 of the pending application, before June, 2000.

3. Exhibit B, attached herewith, is a copy of a laboratory notebook (2 pages total) that I prepared, signed, and had witnessed, before June, 2000. Exhibit B is redacted only as to the dates of the laboratory notebook disclosure and witnessing, dates which all occur before June, 2000.

4. Exhibit A describes a method to assay poly(ADP-ribose) polymerase (PARP) activity which includes the steps of immobilizing PARP on a multiwell HSB plate, contacting the immobilized PARP with biotinylated nicotinamide-adenine-dinucleotide (NAD), at 4°C, and under conditions that allow PARP auto-ribosylation, contacting the auto-ribosylated PARP with

OIPE JC141
JUL 30 2004
PATENT & TRADEMARK OFFICE

an avidin-conjugated alkaline phosphatase detectable marker, thereby forming a complex between the auto-ribosylated PARP and the detectable marker, and measuring the amount of detectable marker complexed to auto-ribosylated PARP using a p-nitrophenyl phosphate (pNPP) substrate of alkaline phosphatase as an indication of the amount of PARP activity in the sample, wherein none of the above-listed reagents are radioactive.

5. I further declare that all statements made herein of my own knowledge are true and that all statements made on belief are believed true; and further, that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-captioned application or any patent issuing therefrom.

7/26/04
Date

Janice Brown
Janice A. Brown